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[11] Patent Number:

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[45] Date of Patent:

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Apr. 6, 1999

[54]	PARTIALLY RIGID-PARTIALLY FLEXIBLE ELECTRO-OPTICAL SENSOR FOR FINGERTIP TRANSILLUMINATION			
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[21]	Appl. No.:	89,523		
[22]	Filed:	Jun. 3, 199	98	
[51]	Int. Cl.6.		A	61B 5/00
[52]	U.S. Cl		600/310;	600/344
[58]	Field of Search		600/.	310, 322.
			600/323, 340, 344,	473, 476

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[57] ABSTRACT

A sensor is provided for transillumination of a blood-profused portion of a human fingertip. The sensor includes an opaque, semi-cylindrical substantially rigid cradle member having a photosensor mounted to a concave surface thereof such that ambient light cannot penetrate the cradle member and induce erroneous readings. A flexible planar web-like support structure is attached at one end thereof to the cradle member and includes a light source mounted within the web thereof. A repositionable adhesive coating on the concave surface of the cradle member holds the fleshy portion of a human fingertip in conformance therewith, and when the flexible planar web-like support structure is wrapped around a fingertip within the cradle member, the light source overlies the photosensor for transillumination of the fingertip.

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18 Claims, 2 Drawing Sheets

